Non-Lethal Weapons in the Global War on Terrorism

Getting it Right”

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Chairman, DoD Joint Non-Lethal Weapons Program

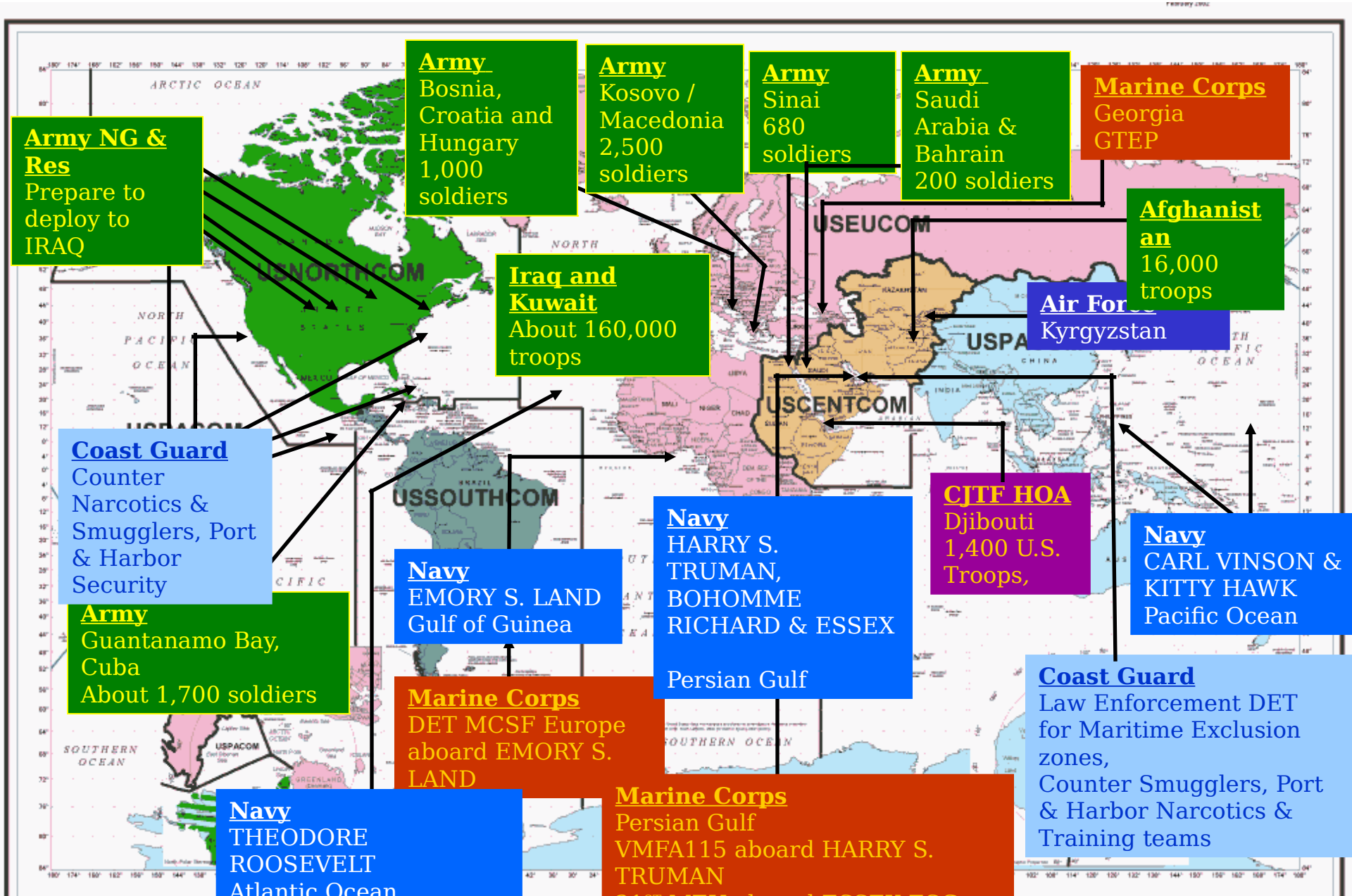
World Wide Capabilities

World Wide Deployments

- US Forces are deployed worldwide in the Global War on Terrorism
- What Current Challenges do we face?

World Wide Environments

US FORCES DEPLOYED GLOBALLY



Today's Realty

Complex Environments

Non-Traditional Threat

Unclear Enemy

Challenging Situat

Three Block War

Intense Combat: Company and Platoon Attacks

Insurgency

Peacekeeping
Peace Enforcement

Humanitarian Assistance

Today's NL Mission Set

- We are performing a multitude of missions and tasks
  - USAF providing security for ground convoy operations
  - Tankers are performing security / policing missions
- We are performing a variety of mission task against an asymmetric threat; often simultaneously.
  - Combat operations against insurgents
  - Law Enforcement missions with host nation officials
  - Peacekeeping operations

How can Non-lethal weapons help mitigate these challenges?

- Deny Critical areas
- Stopping vehicles / vessels
- Separating terrorists from the innocent population
- Secure personnel / equipment
- Vehicle-borne Improvised Explosive Devices

Non-Lethal Weapons

- New Tools to Help The Warfighter
- *Compliments, Not* Replaces Lethal Weapons
- More Options Between the Bullet and the Bullhorn

Non-Lethal Weapons: *Today*

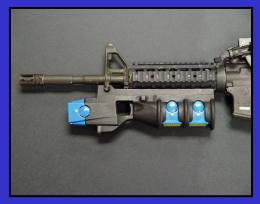
- Basic, “Low Tech” Capabilities
- Generally used by Military Police / Security Forces
- Principally used for crowds, detainee ops, checkpoints

NLW Use in Iraq

“ I had requested the NLW off the ships in Kuwait and took it with us into Iraq. NLW was worth it's weight in gold. One night they were coming through holes in the walls and looting the quartermaster's buildings inside our perimeter. … The H&S Co CO ran over to me and asked if we had NLW. Within 10 minutes we were able to clear about a 1,000 people. We used a variety of rounds. We later employed them from time to time when the circumstances dictated during stabilization operations.

Major, USMCR

Fielded Non-Lethal "Capability Sets"



Non-Lethal Munitions

- 12 Gauge Point & Area Rounds
- 40mm Point & Area Rounds (M203 & M79)
- Flash Bang Grenades (MK-141 & MK-84)
- Stingball Grenades (Handthrown or SG Launc
- 66mm Smoke Grenades (CS, SB & FB This Yea
- Modular Crowd Control Munition

Other Items

- 12 Gauge Shotguns / Modular Accessory Shot
- FN-303 Under-barrel Tactical Paintball System
- Individual, Mid-Size & Squad Riot Control Agent (CS, OC, CR & CN) Dispensers
- Caltrops / Stinger Spike Strips
- Portable Vehicle Arresting Barrier
- Tasers (M26 & X26)
- Riot Control Baton
- Long Range Acoustics Device
- Vehicle Lightweight Arresting Device (VLAD)

Support Equipment
Force Protection Equipment
Training Items

Urgently Fielded Items

- What Non-lethal weapons have we urgently fielded?
  - VLAD (vehicle lightweight arresting device)
  - FN303 Non-lethal launcher
  - M/X-26 Tasers

- How do they help address these challenges?

The Future of NLWs
"Desired Effects"

NLWs Today: Close-in, Low Tech (NL effects only 50-200 feet)

NLWs Tomorrow: Longer range, More Effective (NL effects @ > small arms range)

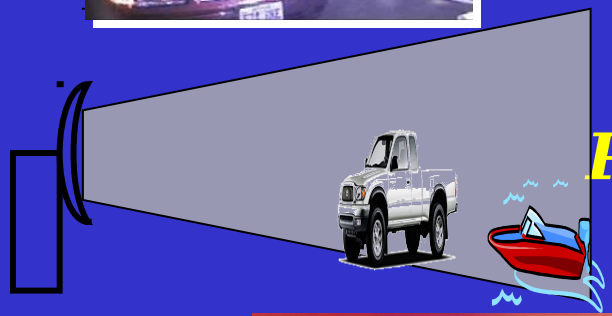
Non-Lethal Weapons: *Tomorrow*

- Longer Range, “Higher Tech”
- Integrated among all forces
- Used for disabling vehicles, denying area to personnel, crowds, stopping vessels, determining intent

What do we Need from NLW

Speed of Light Closure

- Near-real time effects upon trigger pull from 1 to 10's of km
- Impossible to outmaneuver
- Rapid retargeting



Precision Engagement

- Select the target and the aimpoint
- Minimum collateral damage

Controlled Effects

- Scalable effects from deny to destroy: ***counter-material***
- ***Non-lethal human application***

Logistics Advantages

- Low cost per shot
- Deep magazine without shelf-life or stockpile issues

We need Capabilities to stop Vehicles

We must be able to stop vehicles at a safe distance to determine if they are friend or foe…

We need Capabilities to Deny Area to Personnel

We have limited capabilities to deny personnel to Coalition controlled areas

Most NLW/C effective ranges have extremely limited stand-off distance

We need Capabilities to Protect and Separate Tourist from Terrorist

How Industry Can Help

- Review your ideas, concepts, and technological breakthroughs through a non-lethal weapons filter
- Ask yourself:
  - How can I stop a vehicle without destroying it?
  - How can I stop a vessel without sinking it?
  - How can I keep personnel away from a building without shooting them?
  - How can I get personnel out of a building without entering it?
  - How can I do these things at maximum standoff range with minimum risk to others and our troops?